



**IN THE  
UNITED STATES  
PATENT AND TRADEMARK OFFICE**

**IN RE APPLICATION OF:** Aydin Ucan

**CASE:** OST-031241

**SERIAL NO.:** 10/708,359

**FILED ON:** February 26, 2004

**FOR:** POSITION DETECTOR FOR A  
MOVING PART IN A PIPE

**STATEMENT OF BASIS  
FOR RELEVANCE OF  
FOREIGN LANGUAGE  
DOCUMENTS  
IDENTIFIED IN  
SUBMITTED PTO-1449**

Mail Stop Amendment  
COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, VA 22313-1450

**ATTENTION OF:** Art Unit 2862

**EXAMINER:** Ledyh, Bot L.

Dear Examiner:

If any charges or fees must be paid in connection with the following communication, they may be paid out of our Deposit Account No. 50-0545.

<b>PUBLICATION NO.</b>	<b>PUBLICATION DATE</b>	<b>BASIS FOR RELEVANCE</b>
EP 1 158 275 A	11/28/01	The axial position sensor has a computer (9) including an integrated circuit (10) mounted on a plaque of printed circuits (11) overlapping two Hall effect sensors (8A, 8B). The computer may be included in a specific integrated circuit of the ASIC type which also integrates the two Hall effect sensors. The integrated circuit can be directly applied onto two radial projections (7A, 7B). Axial position sensor for a push-rod (1) displaceable between to positions. The sensor includes a magnet fixed to the push-rod and a magnetic flux sensor fixed with respect to the trajectory of the magnet.

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The magnet is in the form of a sleeve (4) of radial magnetic material fixed coaxially on the push-rod which is superficially made of a magnetic material. The magnetic flux sensor (5) includes: (a) two rings (6A, 6B) of ferromagnetic material coaxially surrounding, at a radial distance (e) the sleeve (4), both of which are axially separated from each other; the two rings have at their ends two radial projections (7A, 7B); two Hall effect sensors (8A, 8B) are applied to the projections (7A, 7B), and; a computer (9), connected to the Hall effect sensors, is designed to provide an output signal representing the relationship of the difference of the magnetic fluxes to the sum of the fluxes passing through the sensors. This relationship represents the axial position of the push-rod with respect to a rest position; and tube (18) for closing the magnetic circuit.

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The sensor device for a cylinder 12 containing a moving piston 11 comprises a permanent magnet 13 or 13a on the piston 11 or on an element connected with the piston, and at least one magnetic field responsive device 15 or 15a, having a preferential direction, arranged on the cylinder 12 and responsive to the approach of the permanent magnet. The permanent magnet 13 or 13a and the at least one device 15 or 15a are so aligned that on mutual passage the magnetic field 14 or 14a of the permanent magnet at spatially consecutive points acts substantially parallel to the preferential direction of the sensor 15 or 15a but in opposite directions and thus causes different sensor reactions, means being provided for the storage of such sensor reactions. Accordingly it is possible not only to ascertain the exact current position of the piston 11 on passing the device 15 or 15a but furthermore information is always available as to whether the piston is to the left or to the right of the field responsive device.

### **REMARKS**

This Information Disclosure Statement ("IDS") is submitted pursuant to 37 CFR § 1.56. The filing of this "information disclosure statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in § 1.56(b)." See 37 CFR § 1.97(h).

Because the IDS is being provided after the receipt of the first Office Action, Applicants enclose a check in the amount of \$180.00.

Respectfully submitted,

FACTOR & LAKE, LTD.

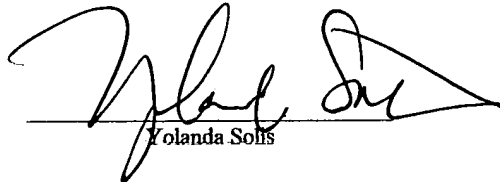


Dated: January 9, 2006

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### **CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Patent Postal Service as first class mail in an envelope addressed to: Mail Stop Amendment Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on January 9, 2006.

  
Yolanda Solis

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